

REMARKS

Claims 1-15 were pending when last examined, of which Claims 1-7 and 10-15 stand rejected. Claims 1, 8, 9, and 11 are objected to. Claims 1, 11, and 12 are amended. Claims 4, 8, and 9 are canceled.

Applicants thank the Examiner for indicating that Claims 8 and 9 would be allowable if rewritten in independent form.

Drawings

The drawings are objected to because FIGs. 3, 4, and 5 are not labeled in accordance with the specification. Replacement Sheets of these drawings are submitted herewith with corrected figure numbers.

Objections

Claim 1 is objected to because words were apparently missing. Claim 1 is amended.

Claim 11 is objected to for depending from itself. Claim 11 is amended.

Claim Rejections – 35 USC §103

Claims 1-7 and 12-15 are rejected under 35 USC 103(a) as being unpatentable over U.S. Patent No. 6,680,722 to Hiraki et al. (“Hiraki”) in view of U.S. Patent No. 6,333,727 to Mizumaki (“Mizumaki”).

Claim 1 is patentable over Hiraki and Mizumaki because it recites that “... the timing controller does not provide the nth image data to the data driver when all bits of the nth image data and the (n-1)th image data are equal and complementary to each other.” As stated in the Application, for example on page 10, lines 24 through page 11, line 19, the timing controller of the invention does not provide the nth image data to the data driver when all bits of the nth image data and the (n-1)th image data are equal and complementary to each other. In contrast, Mizumaki compares the pixel data of each pixel for one frame to the pixel data of the same pixel for the next frame. If the difference between the gray scale level represented by the pixel data for the first frame and the gray scale level represented by the pixel data for the second frame is not significant, the pixel data of the pixel in the second frame is not updated and the same gray scale level is used in the second frame (e.g., Mizumaki, col. 8, lines 24-38). Mizumaki fails to

mention that the timing controller does not provide the nth image data to the data driver if all bits of the nth image data and the (n-1)th image data are *equal and complementary* to each other. Thus, Claim 1 is distinguishable from a combination of Hiraki and Mizumaki.

Claims 2-7 depend from Claim 1 and are thus patentable over Hiraki and Mizumaki for the same reason as Claim 1.

Claim 12 is patentable over Hiraki and Mizumaki because it recites “providing data voltages corresponding to the nth image data to the data line when at least one bit of the nth image data and at least one corresponding bit of the (n-1)th image data are not equal and complementary to each other.” As explained above in reference to Claim 1, Mizumaki fails to mention that the timing controller does not provide the nth image data to the data driver if all bits of the nth image data and the (n-1)th image data are *equal and complementary* to each other.

Claims 13-15 depend from Claim 12 and are thus patentable over Hiraki and Mizumaki for the same reason as Claim 12.

Claim 10 is rejected under 35 USC 103(a) as being unpatentable over Hiraki in view of Mizumaki and U.S. Patent No. 6,624,868 to Terukina et al. (“Terukina”). This rejection is based on the assumption that Hiraki and Mizumaki disclose all the elements of Claim 1. However, as explained above, this is not the case. Thus, Claim 10 is patentable over a combination of Hiraki, Mizumaki, and Terukina.

Claim 11 is rejected under 35 USC 103(a) as being unpatentable over Hiraki in view of Mizumaki and U.S. Patent No. 6,356,260 to Montalbo (“Montalbo”). This rejection is based on the assumption that Hiraki and Mizumaki disclose all the elements of Claim 1. However, as explained above, this is not the case. Thus, Claim 11 is patentable over a combination of Hiraki, Mizumaki, and Montalbo.

Conclusion

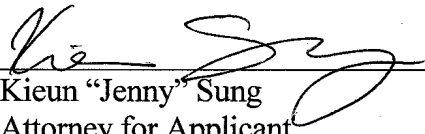
Based on the foregoing, Claims 1-3, 5-7, and 10-15 are now in condition for allowance.
Please telephone the undersigned attorney at (408) 392-9250 if there are any questions.

Respectfully submitted,

MACPHERSON KWOK CHEN & HEID LLP

Dated Oct. 8, 2007

By


Kieun "Jenny" Sung
Attorney for Applicant
Reg. No. 48,639

MACPHERSON KWOK CHEN & HEID LLP
2033 Gateway Place, Ste. 400
San Jose, CA 95110
Telephone: (408) 392-9250
Facsimile: (408) 392-9262